

1138-05-292

Karen Gunderson* (karen.gunderson@umanitoba.ca), University of Manitoba, Department of Mathematics, 186 Dysart Road, Winnipeg, MB R3T 2N2. *Random geometric graphs in normed spaces.*

Often, random geometric graphs are generated by placing points randomly in a metric space and then joining points within a fixed distance. Recently, Bonato and Janssen introduced another model in which the vertices are a fixed countable dense set in a normed space and pairs at distance at most 1 are joined by an edge with a given probability, independently of all others. While the properties of the resulting graph may depend heavily on the geometry of the underlying space and on the choice of the set of vertices, it was shown that in some cases, the graphs generated in this way will almost surely be isomorphic to each other. In these cases, the set of vertices is said to be *Rado*. I shall discuss some new results on Rado sets in arbitrary finite-dimensional normed spaces. This is based on joint work with Balister, Bollobás, Leader, and Walters. (Received February 12, 2018)